

Rec'd PCT/PTO 14 MAR 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



527727



(43) International Publication Date
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number
WO 2005/077521 A1

(51) International Patent Classification⁷: B01J 13/04, (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number: PCT/EP2004/001490

(22) International Filing Date: 17 February 2004 (17.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): SYM-RISE GMBH & CO. KG [DE/DE]; Mühlenfeldstrasse 1, 37603 Holzminden (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): WONSCHIK, Jochen [DE/DE]; Riepenbrink 16, 37647 Brevörde (DE). MACHINEK, Arnold [DE/DE]; Elsa-Brandström-Weg 17, 37603 Holzminden (DE). KOSCHORRECK, Carsten [DE/DE]; Mozartstr. 1, 37603 Holzminden (DE).

(74) Agent: STILKENBÖHMER, Uwe; Association No. 15, Eisenführ, Speiser & Partner, Postfach 10 60 78, 28060 Bremen (DE).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/077521 A1

(54) Title: COATED SHERICAL SEAMLESS FILLED CAPSULES

(57) **Abstract:** Described is a spherical coated capsule comprising (a) a coating-free capsule having (i) a liquid or viscous core and (ii) a seamless solid shell surrounding this core, and (b) a seamless, solid coating surrounding said coating-free capsule, wherein - the diameter of the coated capsule is in the range of 5 - 9 mm, - the solid coating comprises at least one sugar or sugar-alcohol in an amount from about 30 - 90% (m/m), based on the total mass of the coated capsule, - the diameter of the coating-free capsule is in the range of 3 - 7 mm, the thickness of the shell of said coating-free capsule is in the range of 20 - 200 μ m, - the ratio of shell thickness to diameter of said coating-free capsule is in the range of 0.004 - 0.04, - the shell of said coating-free capsule contains 70 - 90 % (m/m) gelatine or alginate and 10 - 30 % (m/m) plasticiser, based on the solids content of said shell, and - the core has a flavouring content in the range of 1 - 100 % (m/m), based on the total mass of the core. Further described is a method for preparing such capsule.